

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the present application:

1-9. (Canceled)

10. (Currently amended) A method of dynamically updating a user interface on a local processing system, the method comprising:

generating a presentation document based on a source document and a stored data set, wherein the source document includes a tag, the tag having as an attribute an expression which can be evaluated, the expression having a variable value; and responding to an event by

modifying the data set,

determining whether the modification to the data set should affect the presentation document, including evaluating the expression, and

~~if the modification to the data set should affect the presentation document,~~
~~then automatically~~ updating the presentation document based on ~~the modification to the data set~~ a result of evaluating the expression.

11. A method as recited in claim 10, further comprising storing the data set locally within the local processing system.

12. (Canceled)

13. (Currently amended) A method as recited in claim 10, wherein said ~~automatically~~

updating the presentation document comprises ~~automatically~~ updating only segments of the presentation document that correspond to the changed data, without updating the entire presentation document.

14. (Currently amended) A method as recited in claim 10, further comprising storing the data set locally within the local processing system, wherein said ~~automatically~~ updating the presentation document comprises ~~automatically~~ updating only segments of the presentation document that depend on the changed data, without updating the entire presentation document.

15. A method as recited in claim 10, wherein the source document is an extensible markup language document.

16. (Currently amended) A method of dynamically updating a user interface on a local processing system, the method comprising:

providing a presentation document in the local processing system based on a source document written in an extensible markup language and a data set, wherein the source document includes a tag, the tag having as an attribute an expression containing conditional logic which can be evaluated, the expression having a variable value;

rendering the user interface in the local processing system based on the presentation document;

detecting an event in the local processing system;

responding to the event in the local processing system by

causing a change to the data in the local processing system,

determining whether the presentation document is dependent upon the

changed data, including evaluating the expression, and

if the presentation document is dependent upon the changed data, then ~~automatically~~ updating the presentation document based on the change to the data by using a result of evaluating the expression; and

rendering the user interface in the local processing system based on the updated presentation document.

17. A method as recited in claim 16, further comprising storing the data set locally within the local processing system.

18. (Currently amended) A method as recited in claim 16, further comprising storing the data set locally within the local processing system, wherein said ~~automatically~~ updating the presentation document comprises ~~automatically~~ updating only one or more segments of the presentation document that depend on the changed data, without updating the entire presentation document.

19-41. (Canceled)

42. (Currently amended) A machine-readable storage medium containing instructions which, when executed by a machine, configure the machine to perform a method and apparatus for dynamically updating a user interface in a processing system, the method comprising:

storing a data set locally in the processing system;

generating a presentation document in the processing system based on the data model and a source document written in extensible markup language, wherein the

source document includes a tag, the tag having as an attribute an expression which can be evaluated, the expression having a variable value;

rendering the user interface in the processing system based on the presentation document;

responding to an event in the local processing system by

causing a change to the data set,

determining a set of parts of the presentation document which are invalid as a result of the change by evaluating the expression, and

automatically updating only those parts of the presentation document that are invalid, without updating the entire presentation document, based on a result of the expression; and

rendering the user interface based on the updated presentation document.

43. (Canceled)

44. (Currently amended) A computing device comprising:

a processor;

an output device;

a first storage unit containing a data set for use in generating an extensible markup language based presentation document; and

a second storage unit containing instructions which configure the processor to generate the presentation document based on a source document written in an extensible markup language and the data set, wherein the presentation document ~~is dependent upon one or more expressions that operate~~ includes one or more tags.

each said tag having as an attribute an expression that operates on the data, wherein
each said expression can be evaluated and has a variable value;

present a user interface at the output device based on the presentation document;

detect an event; and

respond to the event by

causing a change to the data set,

determine whether the presentation document is dependent upon at least one expression included as an attribute in a tag in the source document, the result of which is affected by the change to the data, and

if the presentation document is dependent upon at least one expression, the result of which is affected by the change to the data, then automatically updating only one or more segments of the presentation document that depend on said at least one expression, without updating the entire presentation document, based on a result of evaluating said at least one expression, and

present the user interface at the output device based on the updated presentation document.

45. A computing device as recited in claim 44, wherein the computing device is a wireless, hand-held computing device.

46. A computing device as recited in claim 45, wherein the computing device is configured to receive the source document from a remote server over a network.

47. (Canceled)

48. (New) An apparatus to dynamically update a user interface on a local processing system, the apparatus comprising:

means for generating a presentation document based on a source document and a stored data set, wherein the source document includes a tag, the tag having as an attribute an expression which can be evaluated, the expression having a variable value; and

means for responding to an event by

modifying the data set,

determining whether the modification to the data set should affect the presentation document, including evaluating the expression, and

updating the presentation document based on a result of evaluating the expression.

49. (New) An apparatus as recited in claim 48, further comprising means for storing the data set locally.

50. (New) An apparatus as recited in claim 48, wherein said updating the presentation document comprises updating only segments of the presentation document that correspond to the changed data, without updating the entire presentation document.

51. (New) An apparatus as recited in claim 48, further comprising means for storing the data set locally, wherein said updating the presentation document comprises updating only segments of the presentation document that depend on the changed data, without updating the entire presentation document.

52. (New) An apparatus as recited in claim 51, wherein the source document is an extensible markup language document.

53. (New) An apparatus as recited in claim 51, wherein the expression comprises conditional logic.

54. (New) A method as recited in claim 10, wherein the expression comprises conditional logic.

55. (New) A machine-readable storage medium as recited in claim 42, wherein the expression comprises conditional logic.

56. (New) A computing device as recited in claim 44, wherein the expression comprises conditional logic.
